

WHAT IS CLAIMED IS:

1. A resin composition obtained by blending a thermoplastic resin that can be melt-extruded at a solubility parameter of not smaller than 9.5 with an organic oxidizing component and with a transition metal catalyst, said organic oxidizing component being a polyene having a functional group on a side chain or at a terminal thereof.
2. A resin composition according to claim 1, wherein said the thermoplastic resin is a gas-barrier resin having an oxygen permeation coefficient of not larger than $7 \text{ cc}\cdot\text{mm}/\text{m}^2\cdot\text{day}\cdot\text{atm}$ (20°C , 0%RH).
3. A resin composition according to claim 1, wherein said thermoplastic resin is a polyamide resin or an ethylene-vinyl alcohol copolymer.
4. A resin composition according to claim 1, wherein said thermoplastic resin is a xylylene group-containing polyamide resin having a concentration of amino end groups of not smaller than $40 \text{ eq}/10^6 \text{ g}$.
5. A resin composition according to claim 1, wherein said organic oxidizing component is a polybutadiene or a polyisoprene modified with a maleic acid or with an anhydride thereof.
6. A resin composition according to claim 1, wherein said organic oxidizing component is dispersed in the thermoplastic resin, and the dispersant thereof has a minimum length of not larger than 400 nm.
7. A resin composition according to claim 1, wherein said transition metal catalyst is an organic salt of cobalt and is contained at a concentration of not smaller than 300 ppm calculated as a metal.
8. A multi-layer container having at least one oxygen-absorbing layer of a

resin composition of claim 1.

9. A multi-layer container according to claim 8, wherein a layer of a polyolefin resin is formed on at least one side of said oxygen-absorbing layer.

10. A multi-layer container according to claim 8, wherein a layer of a thermoplastic polyester resin is formed on at least one side of said oxygen-absorbing layer.

11. A multi-layer container according to claim 9, wherein said polyester resin layer has a half-value width of an X-ray diffraction profile of not larger than 15° .

12. A multi-layer container according to claim 9, wherein said thermoplastic polyester resin has a crystallinity of from 30 to 55%.

13. A multi-layer container having at least one oxygen-absorbing layer of a resin composition obtained by blending a thermoplastic resin that can be melt-extruded at a solubility parameter of not smaller than 9.5 with an organic oxidizing component and with a transition metal catalyst, said organic oxidizing component being a polyene having a functional group on a side chain or at a terminal thereof.

14. The multi-layer container according to claim 13, wherein a layer of a polyolefin resin is formed on at least one side of said oxygen-absorbing layer.

15. The multi-layer container according to claim 13, wherein a layer of a thermoplastic polyester resin is formed on at least one side of said oxygen-absorbing layer.

16. The multi-layer container according to claim 15, wherein said thermoplastic polyester resin layer has a half-value width of an X-ray diffraction profile of not larger than 15° .

17. The multi-layer container according to claim 15, wherein said thermoplastic polyester resin has a crystallinity of from 30 to 55%.

18. The multi-layer container according to claim 13, wherein said thermoplastic resin is a polyamide resin or an ethylene-vinyl alcohol copolymer.

19. The multi-layer container according to claim 13, wherein said thermoplastic resin is a xylylene group-containing polyamide resin having a concentration of amino end groups of not smaller than $40 \text{ eq}/10^6 \text{ g}$.